

SAFETY DATA SHEET

COLOROBI	BIA	ITALIA	HA HTL000136					
S.P.A.								
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name HTL--000136

Product code 000000000010057931

Product description Not available.

liquid **Product type**

Other means of identification HTL--000136

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Third firing decoration in the glass/ceramics/porcelain sectorsThird

firing decoration in the glass/ceramics/porcelain sectors

1.3 Details of the supplier of the safety data sheet

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Località e Stato 50053 Sovigliana - Vinci (FI)

Italia

tel. +39 0571 7091 fax +39 0571 709.850

e-mail address of person responsible for this SDS

1.4 Emergency telephone number

QHSE@colorobbia.it

National advisory body/Poison Center

Telephone number CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

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Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms











Signal word Hazard statements Danger

: H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated

exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

General: P103 - Read carefully and follow all instructions.P102 - Keep out of

reach of children.P101 - If medical advice is needed, have product

container or label at hand.

Prevention: P280 - Wear protective gloves. P280 - Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash thoroughly

after handling.

Response: P391 - Collect spillage. P314 - Get medical advice or attention if you

feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 - IF ON SKIN: P302 + P352 - Wash with plenty of water. P333 - If skin irritation or rash occurs: P333 + P313 - Get medical advice or attention. P305 - IF IN EYES: P305 + P351 +

P338 - Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P305 +

P310 - Immediately call a POISON CENTER or doctor.

Storage Not applicable.

Disposal P501 - Dispose of contents and container in accordance with all

local, regional, national and international regulations.

Hazardous ingredients turpentine, oil

rosin

Eucalyptus globulus, ext.

bornan-2-one (E)-anethole linalool

(R)-p-mentha-1,8-diene

anethole cineole pin-2(3)-ene pin-2(10)-ene

p-mentha-1,4(8)-diene Melaleuca alternifolia, ext.

Supplemental label elements Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures

Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger Yes, applicable.

2.3 Other hazards

and articles

for PBT or vPvB

Product meets the criteria: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

according to Regulation (EC) No. 1907/2006, **Annex XIII**

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M- factors and ATEs	Туре
turpentine, oil	EC: 232-350-7 CAS: 8006-64-2 Index: 650-002-00-6		Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1.100 mg/kg ATE [Inhalation (vapours)] = 13,7 mg/l	[1]

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			Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411		
rosin	EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	> 0 - <= 10	Met. Corr. 1, H290 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
Eucalyptus globulus, ext.	EC : 283-406-2 CAS : 84625-32-1	> 0 - <= 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
cyclohexanol	EC: 203-630-6 CAS: 108-93-0 Index: 603-009-00-3	> 0 - <= 7	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 STOT SE 3, H335 (Respiratory tract irritation)	ATE [Oral] = 1.400 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
benzyl alcohol	EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	> 0 - <= 4,1	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1.230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
bornan-2-one	EC : 200-945-0 CAS : 76-22-2	> 0 - <= 3	Flam. Sol. 2, H228 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 4, H413	-	[1]
cyclohexanone	EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	> 0 - <= 3	Flam. Liq. 3, H226 Acute Tox. 4, H332	ATE [Inhalation (gases)] = 8.000 ppm	[1] [2]
(E)-anethole	EC: 224-052-0 CAS: 4180-23-8	> 0 - <= 3	Skin Sens. 1, H317	-	[1]
linalool	EC: 201-134-4 CAS: 78-70-6 Index: 603-235-00-2	> 0 - <= 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
(R)-p-mentha-1,8-diene	EC: 227-813-5 CAS: 5989-27-5 Index: 601-096-00-2	> 0 - <= 3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
anethole	EC : 203-205-5 CAS : 104-46-1	> 0 - < 1	Skin Sens. 1, H317	-	[1]

cineole	EC: 207-431-5 CAS: 470-82-6	> 0 - < 1	Flam. Liq. 3, H226 Skin Sens. 1, H317	-	[1]
pin-2(3)-ene	EC : 201-291-9 CAS : 80-56-8	> 0 - < 1	Flam. Liq. 3, H226 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
camphene	EC: 201-234-8 CAS: 79-92-5	> 0 - <= 0,3	Flam. Sol. 2, H228 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
pin-2(10)-ene	EC: 204-872-5 CAS: 127-91-3	> 0 - <= 0,3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304	-	[1]
p-mentha-1,4(8)-diene	EC : 209-578-0 CAS : 586-62-9	> 0 - <= 0,3	Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Melaleuca alternifolia, ext.	EC: 285-377-1 CAS: 85085-48-9	> 0 - <= 0,3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg	[1]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

Eye contact

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory

arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: pain, watering,

redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following: pain or irritation,

redness, blistering may occur

Ingestion: Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

Decomposition products may include the following materials: carbon dioxide, carbon monoxide Decomposition products may include the following materials: carbon dioxide, carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be tak

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-

combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5.000 t	50.000 t

E1	100 t	200 t

7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific** : Not available.

solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
cyclohexanone	Exposure limit values EU OEL (2000-06-01). Absorbed through skin TWA 40,8 mg/m3 10 ppm STEL 81,6 mg/m3 20 ppm Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (2004-03-01). Absorbed through skin TWA 40,8 mg/m3 10 ppm
	STEL 81,6 mg/m3 20 ppm

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
turpentine, oil	DNEL	Short term	1,6 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	0,11 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Short term	51,6 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	10,3 mg/m ³	Workers	Local
		Inhalation			

	DNEL	Long term Inhalation	3,9 mg/m ³	Workers	Local
	DNEL	Long term Dermal	3,17 mg/cm ²	Workers	Local
	DNEL	Short term Oral	0,59 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0,12 mg/m ³	General population	Systemic
	DNEL	Short term	9,51 mg/cm ²	Workers	Local
	DNEL	Dermal Long term	0,78 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term	1,17 mg/kg	Workers	Systemic
	DNEL	Dermal Long term	0,018 mg/m ³	General	Systemic
	DNEL	Inhalation Long term	0,417 mg/kg	population General	Systemic
cyclohexanol	DNEL	Dermal Long term	bw/day 1,43 mg/kg	population Workers	Systemic
-	DNEL	Dermal Long term	bw/day 0,716 mg/kg	General	Systemic
	DNEL	Dermal Long term	bw/day 0,716 mg/kg	population General	Systemic
		Oral	bw/day	population	-
	DNEL	Long term Inhalation	40,3 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	10 mg/m ³	General population	Systemic
rosin	DNEL	Long term Oral	1,0655 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term Dermal	2,131 mg/kg bw/day	Workers	Systemic
Eucalyptus globulus, ext.	DNEL	Long term Inhalation	3,52 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0,87 mg/m ³	General population	Systemic
benzyl alcohol	DNEL	Short term Inhalation	110 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	5,4 mg/m ³	General	Systemic
		Inhalation		nonulation	
	DNEL	Inhalation Long term Oral	4 mg/kg bw/day	population General population	Systemic

		Inhalation			
	DNEL	Short term	20 mg/kg	General	Systemic
	31,22	Dermal	bw/day	population	
	DNEL	Short term	20 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	4 mg/kg	General	Systemic
		Dermal	bw/day	population	
bornan-2-one	DNEL	Long term	4,3478	General	Systemic
2 0110	31,22	Inhalation	mg/m³	population	
	DNEL	Long term	17,6316	Workers	Systemic
	BIVEE	Inhalation	mg/m³	VV OTROIS	Systemic
	DNEL	Long term	5 mg/kg	General	Systemic
	BIVEE	Dermal	bw/day	population	Systemic
	DNEL	Long term	5 mg/kg	General	Systemic
	DIVEE	Oral	bw/day	population	Bystelline
	DNEL	Long term	10 mg/kg	Workers	Systemic
	DIVLE	Dermal	bw/day	WOIKCIS	Systemic
cyclohexanone	DNEL	Short term	1 mg/kg	General	Systemic
Cyclonexanone	DINEL	Dermal	bw/day	population	Systemic
	DNEL	Short term	80 mg/m ³	Workers	Systemic
	DIVEL	Inhalation	oo mg/m-	WOIKEIS	Systemic
	DNEL	Short term	80 mg/m ³	Workers	Local
	DIVEL	Inhalation	oo mg/m-	WOLKEIS	Local
	DNEL	Long term	40 mg/m ³	Workers	Systemic
	DNEL	Inhalation	40 mg/m²	WOIKEIS	Systemic
	DNEL		40 m a/m3	Workers	Local
	DNEL	Long term	40 mg/m ³	workers	Local
	DAIEI	Inhalation	40 / 2	G 1	T 1
	DNEL	Short term	40 mg/m ³	General	Local
	DIE	Inhalation	20 / 2	population	G
	DNEL	Short term	20 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	20 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	10 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	4 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Short term	4 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	1,5 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Short term	1,5 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	1 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Short term	1 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Short term	20 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	20 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	10 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	4 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Short term	4 mg/kg	Workers	Systemic
		Dermal	bw/day		,

	DNEL	Long term	1,5 mg/kg	General	Systemic
		Oral	bw/day	population	,
	DNEL	Short term	1,5 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	1 mg/kg	General	Systemic
		Dermal	bw/day	population	
(E)-anethole	DNEL	Long term	3 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	1,5 mg/kg	General	Systemic
	DNET	Dermal	bw/day	population	G
	DNEL	Long term	1,5 mg/kg	General	Systemic
	DNEI	Oral	bw/day	population	Cti-
	DNEL	Long term Inhalation	2,61 mg/m ³	General	Systemic
linalool	DNEL	Long term	3 mg/cm ²	population Workers	Local
IIIIai001	DNEL	Dermal	3 mg/cm²	Workers	Local
(R)-p-mentha-1,8-diene	DNEL	Long term	16,6 mg/m ³	General	Systemic
(, P		Inhalation	10,0 1118/111	population	
	DNEL	Long term	9,5 mg/kg	Workers	Systemic
		Dermal	bw/day		, , , , , , , , , , , , , , , , , , , ,
	DNEL	Long term	4,8 mg/kg	General	Systemic
		Dermal	bw/day	population	, , , , , , , , , , , , , , , , , , , ,
	DNEL	Long term	4,8 mg/kg	General	Systemic
	·	Oral	bw/day	population	
	DNEL	Long term	66,7 mg/m ³	Workers	Systemic
		Inhalation			
cineole	DNEL	Long term	1 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	600 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	7,05 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	2 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	1,74 mg/m ³	General	Systemic
		Inhalation		population	
pin-2(3)-ene	DNEL	Long term	0,225 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	0,225 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	3.8 mg/m^3	Workers	Systemic
	DIE	Inhalation	0.574	G 1	
	DNEL	Long term	$0,674 \text{ mg/m}^3$	General	Systemic
	DATE	Inhalation	0.542 "	population	G
	DNEL	Long term	0,542 mg/kg	Workers	Systemic
1	DME	Dermal	bw/day	W. alam	Caratana
camphene	DNEL	Long term	110,19	Workers	Systemic
	DMEI	Inhalation Short term	mg/m³	Worlsons	Cyataraia
	DNEL	Short term Inhalation	110,19	Workers	Systemic
	DNEL	Long term	mg/m ³ 54,3 mg/m ³	General	Systemic
	DNEL	Inhalation	54,5 mg/m		Systemic
	DNEL	Short term	54,3 mg/m ³	population General	Cyatamia
	LUNEL	Short term	54,5 mg/m		Systemic
	DIVEE	Inhalation		nonulation	
		Inhalation Short torm	1.25 mg/lsc	population	Cyatamia
	DNEL	Inhalation Short term Dermal	1,25 mg/kg bw/day	Workers	Systemic

		Dermal	bw/day	population	
	DNEL	Short term	0,625 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	0,1 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	0,1 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	0,21 mg/kg	Workers	Systemic
		Dermal	bw/day		
p-mentha-1,4(8)-diene	DNEL	Long term Inhalation	3,6 mg/m ³	Workers	Systemic
	DNEL	Long term	0,9 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	0,52 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	0,26 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	0,26 mg/kg	General	Systemic
		Oral	bw/day	population	
Melaleuca alternifolia, ext.	DNEL	Long term	0,067 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Short term	0,067 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	4,356 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Short term	4,356 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	1,556 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Short term	1,556 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	0,658 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	0,658 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	0,296 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	0,296 mg/m ³	General	Systemic
		Inhalation		population	-

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

: It is recommended to wear a hooded visor or protective visor combined with airtight goggles (ref. Standard EN 166).

Skin protection Hand protection

Eye/face protection

Protect hands with category III work gloves (ref. Standard EN 374). For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product, it is recommended to wear a mask with type AX filter whose limit of use will be defined by the manufacturer (ref. . standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided. The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited. In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open-circuit compressed air breathing apparatus (ref. Standard EN 137) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state
Color
Brown.

Odor
Aromatic.
Odor threshold
Melting point/freezing point
Initial boiling point and boiling

i liquid [liquid]
Rown.

Aromatic.
Not available.
Not available.
> 100 °C (> 212 °F)

range

Flammability : Not available.

Lower and upper explosion limit : **Lower:** Not available.

Upper: Not available.

Flash point :

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Product is non-polar/aprotic.

Viscosity : Dynamic : Not available.

Kinematic: Not available.

Solubility in water : insoluble

Partition coefficient: n-

octanol/water

Not applicable.

Vapor pressure :

Relative density: Not available.Vapor density: Not applicable.Explosive properties: Not available.Oxidizing properties: Not available.

Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers

to heat or sources of ignition.

10.5 Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
turpentine, oil				
	LD50 Oral	Rat	3.956 mg/kg	-
	LC50 Inhalation	Rat	19,9 mg/l	1 h
	Vapor			
	LC50 Inhalation	Rat	13,7 mg/l	4 h
	Vapor			
cyclohexanol				
	LD50 Oral	Rat	1.400 mg/kg	-
rosin				
	LD50 Oral	Rat	7.600 mg/kg	-
benzyl alcohol				
	LD50 Oral	Rat	1.230 mg/kg	-
	LD50 Dermal	Rabbit	2.000 mg/kg	-
cyclohexanone				
	LD50 Oral	Rat	1.800 mg/kg	-
	LC50 Inhalation	Rat	8.000 ppm	4 h
	Gas.			
(E)-anethole				
	LD50 Oral	Rat	2.090 mg/kg	-
linalool				
	LD50 Oral	Rat	2.790 mg/kg	-
	LD50 Dermal	Rabbit	5.610 mg/kg	-
	LD50 Dermal	Rat	5.610 mg/kg	-
(R)-p-mentha-1,8-diene				
	LD50 Oral	Rat	4.400 mg/kg	-
	LD50 Dermal	Rabbit	5.000 mg/kg	-
anethole	•	•		•
	LD50 Oral	Rat	2.090 mg/kg	-
	LD50 Dermal	Rabbit	5.000 mg/kg	-
cineole	•	•		•
	LD50 Oral	Rat	2.480 mg/kg	-
pin-2(3)-ene	_ L	<u>I</u>		1
	LD50 Oral	Rat	3.700 mg/kg	-
	LD50 Dermal	Rabbit	5.000 mg/kg	-
camphene	L	L		
* -	LD50 Oral	Rat	5.000 mg/kg	-
	LC50 Inhalation	Rat	17,1 mg/l	1 h
	Vapor		,	
	LC50 Inhalation	Rat	17,1 mg/l	4 h
	Vapor		, ,	
Varaione 40 Da	vapor	20.06.2022	Data of municipalis	15.06.000

pin-2(10)-ene				
	LD50 Oral	Rat	4.700 mg/kg	-
	LD50 Dermal	Rabbit	5.000 mg/kg	-
p-mentha-1,4(8)-diene				
	LD50 Oral	Rat	4.390 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
HTL000136	2286,7 mg/kg	6040,6 mg/kg	458347,7 ppm	45,2 mg/l	N/A
turpentine, oil	500 mg/kg	1100 mg/kg	N/A	13,7 mg/l	N/A
cyclohexanol	1400 mg/kg	N/A	N/A	11 mg/l	N/A
rosin	7600 mg/kg	N/A	N/A	N/A	N/A
benzyl alcohol	1230 mg/kg	N/A	N/A	11 mg/l	N/A
cyclohexanone	N/A	N/A	8000 ppm	N/A	N/A
(E)-anethole	2090 mg/kg	N/A	N/A	N/A	N/A
linalool	2790 mg/kg	5610 mg/kg	N/A	N/A	N/A
(R)-p-mentha-1,8-diene	4400 mg/kg	5000 mg/kg	N/A	N/A	N/A
anethole	2090 mg/kg	5000 mg/kg	N/A	N/A	N/A
cineole	2480 mg/kg	N/A	N/A	N/A	N/A
pin-2(3)-ene	3700 mg/kg	5000 mg/kg	N/A	N/A	N/A
camphene	5000 mg/kg	N/A	N/A	N/A	N/A
pin-2(10)-ene	4700 mg/kg	5000 mg/kg	N/A	N/A	N/A
p-mentha-1,4(8)-diene	4390 mg/kg	N/A	N/A	N/A	N/A
Melaleuca alternifolia, ext.	500 mg/kg	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
turpentine, oil	Skin - Severe	Rabbit	-		-
	irritant				
	Skin - Severe	Human	-		-
	irritant				
cyclohexanol	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Skin - Mild	Rabbit	-	24 hrs	-
	irritant				
	Eyes -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Eyes - Mild	Rabbit	-	24 hrs	-
	irritant				
	Eyes -	Rabbit	-		-

	T = = -				
	Moderate				
	irritant				
benzyl alcohol	Skin -	Pig	-		-
	Moderate				
	irritant				
	Skin - Mild	Man	-	48 hrs	-
	irritant				
	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
cyclohexanone	Eyes -	Rabbit	-	24 hrs	-
•	Severe				
	irritant				
	Skin - Mild	Human	-	48 hrs	=
	irritant				
	Skin - Mild	Rabbit	_		-
	irritant				
	Eyes -	Rabbit	_		_
	Severe	ruoon			
	irritant				
linalool	Eyes -	Rabbit	_	1 hrs	-
maroor	Moderate	Rubbit		1 1113	
	irritant				
	Skin - Mild	Man	_	48 hrs	
	irritant	Wian		40 III S	
	Skin - Mild	Rabbit	_	24 hrs	_
	irritant	Kabbit	-	24 1113	_
	Skin - Severe	Rabbit	_	24 hrs	
	irritant	Kabbit	-	24 1118	-
	Eyes -	Rabbit	+		_
	Moderate	Kabbit	_		_
	irritant				
	Skin -	Guinea pig	+	24 hrs	
	Moderate	Guillea pig	_	24 1118	-
	irritant				
		11		72 hrs	
	Skin - Mild	Human	-	72 nrs	-
(D) 1 1 0 1'	irritant	D 1114		241	
(R)-p-mentha-1,8-diene	Skin - Mild	Rabbit	-	24 hrs	-
	irritant				
pin-2(3)-ene	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Skin - Severe	Man	-		-
	irritant				
pin-2(10)-ene	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
p-mentha-1,4(8)-diene	Skin -	Rabbit	-	24 hrs	-
	Moderate		1		

Conclusion/Summary

Skin:Not available.Eyes:Not available.Respiratory:Not available.

Sensitization

Conclusion/Summary

Skin: Not available.Respiratory: Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
cyclohexanol	Category 3	=	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
bornan-2-one	Category 1	-	-

Aspiration hazard

Product/ingredient name	Result
turpentine, oil	ASPIRATION HAZARD - Category 1
(R)-p-mentha-1,8-diene	ASPIRATION HAZARD - Category 1
pin-2(3)-ene	ASPIRATION HAZARD - Category 1
pin-2(10)-ene	ASPIRATION HAZARD - Category 1
p-mentha-1,4(8)-diene	ASPIRATION HAZARD - Category 1
Melaleuca alternifolia, ext.	ASPIRATION HAZARD - Category 1

Information on the likely routes

of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain, watering,

redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following: pain or irritation,

redness, blistering may occur

Ingestion: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General: May cause damage to organs through prolonged or repeated

exposure. Once sensitized, a severe allergic reaction may occur

when subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Reproductive toxicity: No known significant effects or critical hazards.

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties11.2.2 Other informationNot available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	ct/ingredient name Result Species		Exposure
cyclohexanol	•		
	Acute LC50 704 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
benzyl alcohol			
	Acute LC50 10 mg/l Fresh	Fish - Lepomis macrochirus	96 h
	water		
cyclohexanone			
	Acute LC50 527 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
	Acute EC50 32,9 mg/l	Algae - Chlamydomonas	72 h
	-	reinhardtii	
	Chronic EC10 3,56 mg/l	Algae - Chlamydomonas	72 h
		reinhardtii	
(E)-anethole			
	Acute EC50 4,81 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
	Acute EC50 4,25 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
	Acute IC50 9,313 mg/l Fresh	Algae - Pseudokirchneriella	96 h
	water	subcapitata	
linalool			
	Acute LC50 28,8 mg/l Fresh	Fish - Oncorhynchus mykiss	96 h

	water		
	Acute EC50 36,7 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
(R)-p-mentha-1,8-diene	•		
	Acute EC50 0,688 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
	Acute EC50 0,421 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
cineole			
	Acute LC50 102 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
pin-2(3)-ene			
	Acute LC50 5,28 mg/l Fresh	Fish - Lepomis macrochirus	96 h
	water		
	Acute LC50 41 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
camphene		·	
	Acute LC50 1,17 mg/l Fresh	Fish - Lepomis macrochirus	96 h
	water		
	Acute LC50 22 mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute EC50 214 mg/l Marine	Algae - Skeletonema	96 h
	water	costatum	
pin-2(10)-ene			
	Chronic NOEC 0,058 mg/l	Fish - Oncorhynchus mykiss	60 d
	Fresh water		
p-mentha-1,4(8)-diene			
	Acute EC50 0,763 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
	Acute EC50 1,38 mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Chronic NOEC 0,03 - 0,95 mg/l	Algae - Pseudokirchneriella	96 h
	Fresh water	subcapitata	

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
cyclohexanol	1,21,25	-	low
rosin	1,9 - 7,7	-	high
benzyl alcohol	1	-	low
bornan-2-one	2,38	-	low
cyclohexanone	0,86	-	low
linalool	2,84	-	low
(R)-p-mentha-1,8-diene	4,57	-	high
cineole	2,74	-	low
pin-2(3)-ene	4,487	-	high
camphene	-	954,99	high
pin-2(10)-ene	4,425	-	high
p-mentha-1,4(8)-diene	4,47	-	high

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

(KOC)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties : Not available.

12.7 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever

possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the

requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a

hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever

possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging		European waste catalogue (EWC)
	15 01 10*	packaging containing residues of or contaminated by
		hazardous substances

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (turpentine, oil, decahydronaphthalene)	FLAMMABLE LIQUID, N.O.S. (turpentine, oil, decahydronaphthalene)	Flammable liquid, n.o.s. (turpentine, oil, decahydronaphthalene)
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш	Ш	Ш
14.5. Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Add	itional information		
A	ADR/RID	:	The environmentally hazardous substance mark is not required when transported in sizes of \leq 5 L or \leq 5 kg. Special provisions 274, 601 Tunnel code (E)
A	ADN	:	The environmentally hazardous substance mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
I	MDG	:	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Special provisions 223, 274, 955
Ι	ATA	:	The environmentally hazardous substance mark may appear if required by other transportation regulations. Special provisions A3

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on : Not applicable.

the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Industrial emissions (integrated Not listed

pollution prevention

and control) - Air **Industrial emissions (integrated**

Not listed

pollution prevention and control) - Water

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c	
E1	

National regulations

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

Date of issue/Date of revision: Version: 4.0 29.06.2023 Date of previous issue: 15.06.2023 None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Eurasian Economic Union : Russian Federation inventory: Not determined.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand: Not determined.Philippines: Not determined.Republic of Korea: Not determined.Taiwan: Not determined.Thailand: Not determined.Turkey: Not determined.

United States : At least one component is inactive.

Viet Nam : All components are listed or exempted.

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety

Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

[Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H228	Flammable solid.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2

Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Aquatic Chronic 4	AQUATIC HAZARD (LONG-TERM) - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Flam. Sol. 2	FLAMMABLE SOLIDS - Category 2
Met. Corr. 1	CORROSIVE TO METALS - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	Category 3

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